

The PHENIX Multiplicity Vertex Detector

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Abstract

The PHENIX Multiplicity Vertex Detector (MVD) is a highly segmented silicon strip and pad detector. It is designed to measure and trigger on the number of charged particles from high-multiplicity events in gold-gold collisions at RHIC, as well as to measure the collision vertex with great accuracy. The detector has a large pseudo-rapidity (η) coverage and full azimuthal (ϕ) coverage making it possible to study charged particle production versus η and ϕ on an event-by-event basis.

A partially instrumented version of the MVD was installed during the silicon shutdown in the first year of RHIC running. We will give a description of the detector and readout chain and show the first preliminary results from the MVD.
